

GROOVE 'FLAT SQUARE' SERIES

The FG-T6-2 Flat Square Track Heads are crafted for a slim, modern look with narrow spot 14°, spot 20°, narrow flood 36°, flood 50°, and wide flood 64° TIR optics, providing precise beam control and reducing glare. The optics are field changeable, with various lumen and distribution options.

Groove 'Flat Square' Track Heads are equipped with nearly a full range of motion with a rotational range of 355° and a tilt range of 85°. The luminaire serves as an excellent task or accent light.

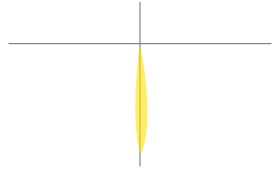
SERIES	Groove - 'Flat Square' series
SIZE	3"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
OPTICS	Narrow Spot 14°, Spot 20°, Narrow Flood 36°, Flood 50°, Wide Flood 64°
FINISH	○ WH (White) ● BK (Black)
DIMMING	On / Off, DIM10 - (0-10V Dimming), DALI.1 - DALI 2, BLE - Bluetooth
LIFETIME	L70 at 60,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

SERIES	DELIVERED LUMENS	WATTAGE
FG-T6-2	600	9W

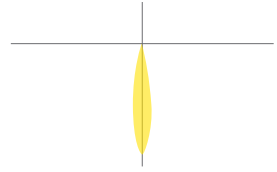
Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%



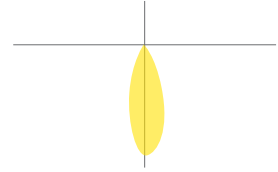
NS: NARROW SPOT (14°)
Candlepower Distribution Curve



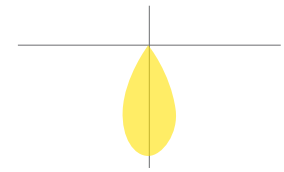
SP: SPOT (20°)
Candlepower Distribution Curve



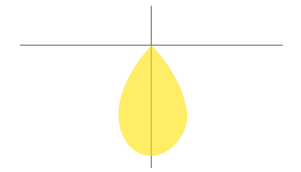
NFL: NARROW FLOOD (36°)
Candlepower Distribution Curve



FL: FLOOD (50°)
Candlepower Distribution Curve



WFL: WIDE FLOOD (64°)
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.

FEATURES OF GROOVE FAMILY

The Groove 48V DC track system is available with multiple sleek, slender, and compact track heads that can be seamlessly mounted onto the track by simply clicking the track head's connector into place, allowing you to interchange one Groove-compatible luminaire for another. The Groove's intuitive click-in track makes it easy to install and switch luminaires, so the system can be updated to match any design or application, current or future.

The Groove track system is available in Trimless Recessed, Recessed Flanged, Ceiling/ Surface, and Suspended options, and can be integrated in most ceiling and wall applications. Utilize suspended and surface mounting options for surface such as wood, drywall or T-Bar ceilings.

The Groove offers a variety of connector accessories that enable users to tailor their designs with custom rectangular, square, or many other linear patterns. The T, X, L Corners and power connectors create dynamic designs that transcend flat surfaces including wall to ceiling, wrap corners, and more.

Drivers can be stowed within the system, hidden from view, or placed in a remote location. The single driver can power runs up to 65' long and 480 Watts. Please refer to driver spec sheets for more detailed information. Our team at Elite Lighting can help you organize the placement of drivers and complete systems.

Fixtures can be installed individually or combined with other Groove track system luminaires to create the perfect design. Multiple linear fixtures can be mounted next to each other on one track for continuous rays of illumination.

Available track head options are in-line linear, adjustable linear, spot, pendant, cylinder, and suspended. Many track heads are crafted with black interiors and TIR optics, providing precise beam control and reducing glare. Most track heads that are available with optics are field-changeable, with various lumen and distribution options. Additionally, some track heads can be overlaid with a single optical accessory, like the Linear Diffuser, Frosted Diffuser, and Honeycomb accessories. Some track heads can be used with spot-light, flood-light, snoot, and wall-wash accessories. (Please refer to the spec sheet on each individual track head for more detailed information.)

Subsequently, the system can be used for accent, task, and general illumination, making it ideal for a plethora of applications, such as galleries, museums, hospitality spaces, retail spaces, corporate offices, and residential spaces.

CONSTRUCTION

All track heads are engineered to have an extremely long lifespan and service period by using coolLED's Advanced Thermodynamic Design, which includes an extruded aluminum body, a hidden diecast heat sink, and a thermal management system.

LED MODULE PERFORMANCE

The Groove System's luminaires are equipped with 2-step McAdam Eclipse LEDs, which provide consistent color across all fixtures, and 90+CRI. The LEDs are available in a variety of kelvin temperature options.

DRIVERS

The Groove System is powered by constant voltage drivers with a rating of 50/60Hz at a 120/277V input and a 48V output. They produce less than 20% THD, have a 90% power factor, and are thermally protected for additional safety. Driver wattages range from 75W to 450W and can power up to 65 ft. of track. Groove drivers can be installed internally within the track or remotely mounted, and are available in 0-10V 1% Dimming, Dali Dimming, or 120V On/ Off Non-Dimming Driver. Please see Groove track system spec sheets for a complete list of drivers and capabilities.

DIMMING INFORMATION

DIM10 - 0-10V dimming on either MVOLT 120, 277. Dimmable down to 1% of initial lumens, standard. Available in 75W, 100W, 150W., 240W.
DIMTR - Electronic low voltage dimming. Available in 120V.
DALI - DALI DT6 dimming down to 1% Available in 75W, 100W, 150W, 240W.

EldoLED PowerDrive dimming down to 0.1%. Please see the EldoLED website for wiring diagrams and a full list of compatible DMX and DALI control systems.

FINISH

Luminaires are available in a powder-coated black or white post-paint finish. They may also be issued in custom RAL colors upon request. Consult the factory to find out which custom colors can be accommodated.

WARRANTY

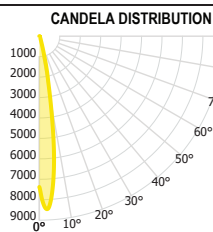
Five-year warranty for parts and components.

EXAMPLE:					
SERIES	OPTICS	CCT	CRI	FINISH	OPTION
FG-T6-2	<input type="checkbox"/> NS=14° <input type="checkbox"/> SP=20° <input type="checkbox"/> NFL=36° <input type="checkbox"/> FL=50° <input type="checkbox"/> WFL=64°	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K	<input type="checkbox"/> 90	<input type="checkbox"/> BK (Black) <input type="checkbox"/> WH (White)	<input type="checkbox"/> 48V <input type="checkbox"/> 48V-BLE (Bluetooth) *Power supply must be ordered separately

FG-T6-2-NS-40K-90

TEST NO.: **220062**

INPUT WATTS: **9.1** LUMENS: **599** EFFICACY: **66** BEAM ANGLE: **14** SPACING CRITERIA: **0.32**



	0°	90°
0°	7376	7376
10°	3029	1119
20°	236	155
30°	92	74
40°	50	43
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	20630554	20630554
45.00°	152523	136464
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	349
10° - 20°	139
20° - 30°	51
30° - 40°	35
40° - 50°	25
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	LUMENS	% LUMINAIRE
0° - 20°	488	81%
0° - 30°	539	90%
0° - 40°	574	96%
0° - 60°	599	100%
0° - 80°	599	100%
0° - 90°	599	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	204.9 fc	1.3 ft	1.2 ft
8.0 ft	115.3 fc	1.7 ft	1.6 ft
10.0 ft	73.8 fc	2.1 ft	2.0 ft
12.0 ft	51.2 fc	2.5 ft	2.4 ft
14.0 ft	37.6 fc	3.0 ft	2.8 ft
16.0 ft	28.8 fc	3.4 ft	3.2 ft
18.0 ft	22.8 fc	3.8 ft	3.7 ft
20.0 ft	18.4 fc	4.2 ft	4.1 ft

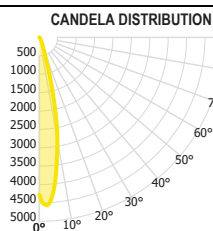
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%
		80%				70%				50%				30%				
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
1	109	107	105	104	106	105	103	102	101	100	99	98	97	96	94	94	93	92
2	105	102	100	97	103	101	98	96	98	96	94	95	94	92	93	91	90	89
3	102	98	95	93	101	97	94	92	95	93	91	93	91	89	91	89	88	87
4	100	95	92	89	98	94	91	89	92	90	88	91	88	87	89	87	86	85
5	97	92	89	86	96	91	88	86	90	87	85	89	86	84	87	85	84	83
6	95	90	86	84	94	89	86	83	88	85	83	87	84	82	86	84	82	81
7	93	87	84	81	92	87	84	81	86	83	81	85	82	81	84	82	80	79
8	91	85	82	80	90	85	82	79	84	81	79	83	81	79	83	80	79	78
9	89	84	80	78	88	83	80	78	83	80	78	82	79	77	81	79	77	76
10	87	82	79	77	87	82	79	76	81	78	76	80	78	76	80	78	76	75

FG-T6-2-SP-40K-90

TEST NO.: **220062**

INPUT WATTS: **9.1** LUMENS: **586** EFFICACY: **64** BEAM ANGLE: **20** SPACING CRITERIA: **0.41**



	0°	90°
0°	4281	4281
10°	2824	1726
20°	325	200
30°	92	66
40°	34	29
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	11972887	11972887
45.00°	98254	90304
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	280
10° - 20°	202
20° - 30°	58
30° - 40°	28
40° - 50°	17
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	LUMENS	% LUMINAIRE
0° - 20°	482	82%
0° - 30°	540	92%
0° - 40°	568	97%
0° - 60°	586	100%
0° - 80°	586	100%
0° - 90°	586	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	118.9 fc	2.0 ft	1.9 ft
8.0 ft	66.9 fc	2.6 ft	2.5 ft
10.0 ft	42.8 fc	3.3 ft	3.1 ft
12.0 ft	29.7 fc	3.9 ft	3.7 ft
14.0 ft	21.8 fc	4.6 ft	4.4 ft
16.0 ft	16.7 fc	5.3 ft	5.0 ft
18.0 ft	13.2 fc	5.9 ft	5.6 ft
20.0 ft	10.7 fc	6.6 ft	6.2 ft

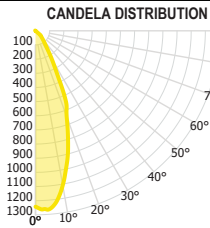
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%
		80%				70%				50%				30%				
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
1	108	106	104	103	106	104	103	101	100	99	98	97	96	95	94	93	92	91
2	105	101	99	97	103	100	97	95	97	95	93	94	93	91	92	91	90	88
3	102	97	94	92	100	96	93	91	94	92	90	92	90	88	90	88	87	86
4	99	94	90	88	97	93	90	87	91	88	86	89	87	85	88	86	84	83
5	96	91	87	85	95	90	87	84	89	86	84	87	85	83	86	84	82	81
6	94	88	84	82	92	87	84	82	86	83	81	85	83	81	84	82	80	79
7	91	86	82	79	90	85	82	79	84	81	79	83	81	79	82	80	78	77
8	89	83	80	77	88	83	80	77	82	79	77	81	79	77	81	78	76	76
9	87	81	78	75	86	81	78	75	80	77	75	80	77	75	79	77	75	74
10	85	80	76	74	85	79	76	74	79	76	74	78	75	73	77	75	73	72

FG-T6-2-NFL-40K-90

TEST NO.: 220062

INPUT WATTS: 9.1 LUMENS: 562 EFFICACY: 62 BEAM ANGLE: 36 SPACING CRITERIA: 0.65



CANDELA TABLE

	0°	90°
0°	1243	1243
10°	1108	966
20°	644	545
30°	229	164
40°	83	67
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	3476324	3476324
45.00°	225225	190733
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

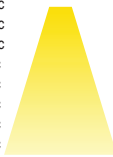
ZONE	LUMENS
0° - 10°	105
10° - 20°	206
20° - 30°	149
30° - 40°	66
40° - 50°	37
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	311	55%
0° - 30°	459	82%
0° - 40°	526	93%
0° - 60°	562	100%
0° - 80°	562	100%
0° - 90°	562	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	34.5 fc	3.8 ft	3.8 ft
8.0 ft	19.4 fc	5.1 ft	5.1 ft
10.0 ft	12.4 fc	6.3 ft	6.4 ft
12.0 ft	8.6 fc	7.6 ft	7.7 ft
14.0 ft	6.3 fc	8.8 ft	9.0 ft
16.0 ft	4.9 fc	10.1 ft	10.2 ft
18.0 ft	3.8 fc	11.4 ft	11.5 ft
20.0 ft	3.1 fc	12.6 ft	12.8 ft



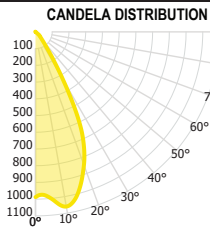
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%										0%					
		70%	80%	10%	70%	50%	30%	10%	50%	30%	10%		50%	30%	10%	0%	
0	108	108	108	108	106	106	106	106	101	101	97	97	97	93	93	93	91
1	104	101	99	98	101	99	98	96	96	94	93	92	91	90	89	89	88
2	99	95	92	89	97	94	91	88	91	88	86	88	86	85	86	84	83
3	95	90	86	83	93	89	85	82	86	83	81	84	82	79	82	80	78
4	91	85	80	77	89	84	80	77	82	79	76	80	77	75	79	76	74
5	87	80	76	72	86	80	75	72	78	74	71	77	73	71	75	72	69
6	83	76	72	68	82	76	71	68	74	70	67	73	70	67	72	69	67
7	80	73	68	64	79	72	68	64	71	67	64	70	66	64	69	66	63
8	77	69	65	61	76	69	64	61	68	64	61	67	63	61	66	63	60
9	74	66	61	58	73	66	61	58	65	61	58	64	60	58	64	60	58
10	71	63	59	56	70	63	59	56	62	58	55	62	58	55	61	58	55

FG-T6-2-FL-40K-90

TEST NO.: 220062

INPUT WATTS: 9.1 LUMENS: 635 EFFICACY: 70 BEAM ANGLE: 50 SPACING CRITERIA: 0.92



CANDELA TABLE

	0°	90°
0°	988	988
10°	1060	940
20°	847	703
30°	325	169
40°	61	39
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	2762292	2762292
45.00°	146590	108024
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	96
10° - 20°	247
20° - 30°	208
30° - 40°	60
40° - 50°	24
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	343	54%
0° - 30°	552	87%
0° - 40°	611	96%
0° - 60°	635	100%
0° - 80°	635	100%
0° - 90°	635	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	27.4 fc	5.4 ft	5.3 ft
8.0 ft	15.4 fc	7.1 ft	7.0 ft
10.0 ft	9.9 fc	8.9 ft	8.8 ft
12.0 ft	6.9 fc	10.7 ft	10.5 ft
14.0 ft	5.0 fc	12.5 ft	12.3 ft
16.0 ft	3.9 fc	14.3 ft	14.0 ft
18.0 ft	3.0 fc	16.1 ft	15.8 ft
20.0 ft	2.5 fc	17.8 ft	17.5 ft



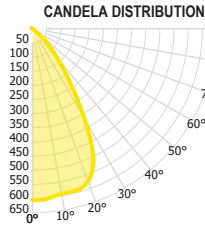
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%										0%					
		70%	80%	10%	70%	50%	30%	10%	50%	30%	10%		50%	30%	10%	0%	
0	113	113	113	113	110	110	110	106	106	106	101	101	101	97	97	97	95
1	108	106	104	102	106	104	102	100	99	97	96	94	93	93	93	92	90
2	104	100	96	94	102	98	95	92	95	93	90	92	90	89	90	88	87
3	99	94	90	87	98	93	89	86	90	87	85	88	85	83	86	84	82
4	95	89	84	81	94	88	84	80	86	82	79	84	81	79	82	80	78
5	91	84	79	76	90	83	79	76	82	78	75	80	77	74	79	76	74
6	87	80	75	71	86	79	75	71	78	74	71	77	73	70	76	72	69
7	84	76	71	68	83	76	71	67	74	70	67	73	70	67	72	69	66
8	80	73	68	64	79	72	67	64	71	67	64	70	66	63	69	66	63
9	77	69	64	61	76	69	64	61	68	64	61	67	63	60	66	63	60
10	74	66	61	58	73	66	61	58	65	61	58	64	60	58	64	60	58

FG-T6-2-WFL-40K-90

TEST NO.: **220062**

INPUT WATTS: **9.2** LUMENS: **569** EFFICACY: **62** BEAM ANGLE: **64** SPACING CRITERIA: **1.04**



CANDELA TABLE

	0°	90°
0°	606	606
10°	593	595
20°	574	534
30°	367	270
40°	137	95
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	1693970	1693970
45.00°	311534	229734
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	57
10° - 20°	163
20° - 30°	192
30° - 40°	110
40° - 50°	47
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	220	39%
0° - 30°	412	72%
0° - 40°	522	92%
0° - 60°	569	100%
0° - 80°	569	100%
0° - 90°	569	100%

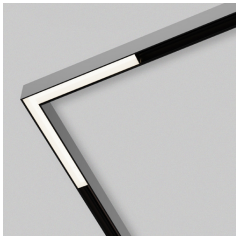
CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	16.8 fc	6.7 ft	6.7 ft
8.0 ft	9.5 fc	9.0 ft	8.9 ft
10.0 ft	6.1 fc	11.2 ft	11.1 ft
12.0 ft	4.2 fc	13.5 ft	13.4 ft
14.0 ft	3.1 fc	15.7 ft	15.6 ft
16.0 ft	2.4 fc	18.0 ft	17.8 ft
18.0 ft	1.9 fc	20.2 ft	20.0 ft
20.0 ft	1.5 fc	22.5 ft	22.3 ft

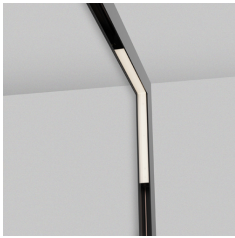
INDOOR COEFFICIENTS OF UTILIZATION

pc	20%																0%				
	80%				70%				50%				30%					10%			
pw	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	0%
0	109	109	109	109	107	107	107	107	102	102	102	98	98	98	98	94	94	94	94	92	
1	104	102	100	98	102	100	98	96	96	95	93	93	92	90	90	89	88	86	86	86	
2	99	95	91	88	97	93	90	87	90	88	85	88	85	84	85	83	82	80	80	80	
3	94	89	84	80	93	87	83	80	85	81	79	83	80	77	81	78	76	75	75	75	
4	90	83	78	74	88	82	77	74	80	76	73	78	75	72	76	73	71	70	70	70	
5	85	78	72	68	84	77	72	68	75	71	67	74	70	67	72	69	66	65	65	65	
6	81	73	67	63	80	72	67	63	71	66	63	69	65	62	68	65	62	61	61	61	
7	77	68	63	59	76	68	63	59	67	62	59	66	61	58	65	61	58	57	57	57	
8	73	64	59	55	72	64	59	55	63	58	55	62	58	55	61	57	54	53	53	53	
9	70	61	55	52	69	60	55	52	60	55	51	59	54	51	58	54	51	50	50	50	
10	66	58	52	49	65	57	52	49	56	52	48	56	51	48	55	51	48	47	47	47	

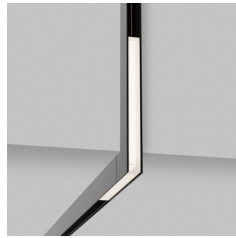
GROOVE TRACK LUMINAIRE OPTIONS:



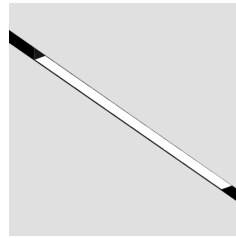
FG-L1R-C90
Seamless Linear Diffused



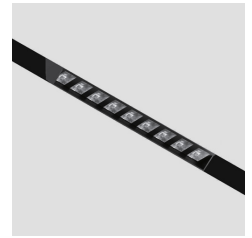
FG-L1R-CI
Seamless Linear Diffused



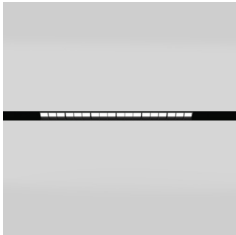
FG-L1R-CO
Seamless Linear Diffused



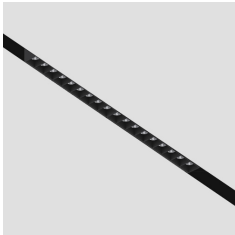
FG-L1R-8 | 16 | 32 | 48 | 64
Seamless Linear Diffused



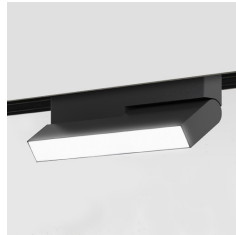
FG-L1-WW-3 | 8
Wall Wash



FG-L3R-16 | 32
Linear Louvered



FG-L4R-3 | 5 | 8 | 16 | 32
Linear Recessed Downlight & Task



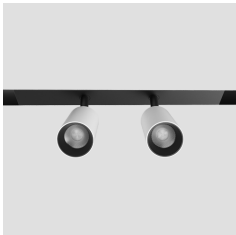
FG-L2A-3 | 5 | 8
Linear Diffused & Adjustable Light



FG-L4A-3 | 5 | 8
Linear Adjustable Downlight, Task & Wall Grazer



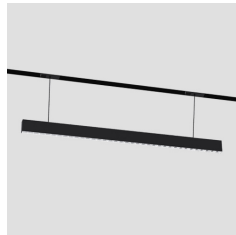
FG-T2-1 | 2 | 3 | FG-T3-1 | 2 | 3
Cylinder



FG-T2-4
Cylinder



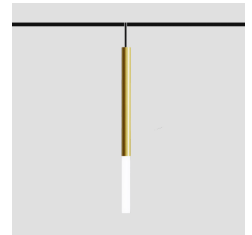
FG-T4-1 | 2 | 3
Beam Adjustable Cylinder



FG-L1P-32
Pendant Louvered



FG-P1-1 | 2
Pendant



FG-P3-1 | 2
Pendant



FG-P4-1 | 2 | 3
Pendant Globe



FG-P5-1
Globe



FG-T1-1
Recessed Track Light



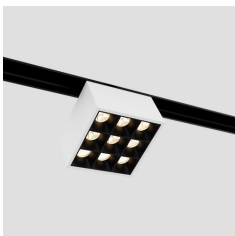
FG-T1-2
Recessed Track Light



FG-T5-1 | 2
Flat Round



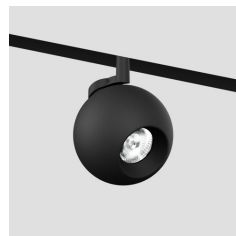
FG-T6-1 | 2
Flat Square



FG-T7-1 | 3
Square Track Light



FG-T7-2
Rectangle Track Light

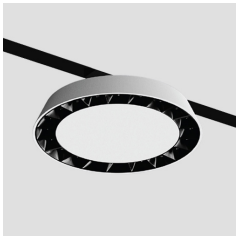


FG-T8-1
Track Globe

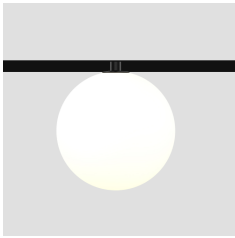


FG-T9-1
Track Globe

GROOVE TRACK LUMINAIRE OPTIONS:



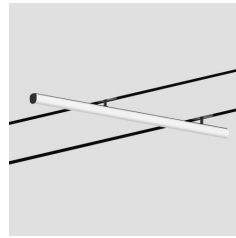
FG-T10-1
Track Downlight



FG-T11-1
Globe



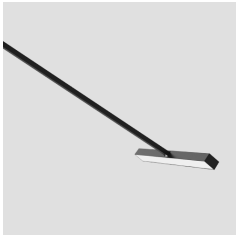
FG-L2S-32 | 48
Surface Light



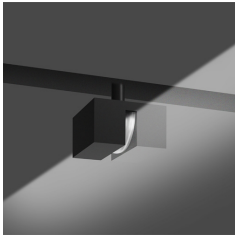
FG-L5S-32 | 48
Surface Light



FG-WL-1
Wall Light



FG-WL-2
Wall Light



FG-LL-1
Line Light



FG-TRJ-1
Projector



FG-TRJ-2
Gobo Projector

GROOVE TRACK MOUNTING OPTIONS:



Trimless Recessed Mount



Surface, Ceiling Mount



Suspended Mount with Uplight



Suspended Mount